

HCC1359 | 305783

General Information

Description	HCC1359 is a cell line derived from a primary lung adenocarcinoma (NSCLC) with a KRAS mutation. It is characterized by its ability to grow in soft agar and its sensitivity to cisplatin. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cell line is derived from a 55-year-old male patient with a history of smoking. The cell line is characterized by its ability to grow in soft agar and its sensitivity to cisplatin. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung carcinoma
Synonyms	HCC-1359, HCC1359, HCC1359

Characteristics

Age	55 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Cell type	Adenocarcinoma
Growth properties	Soft agar dependent

References and Safety

Citation	HCC1359 (ATCC CCL-221) Cytion 305783
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_5128

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Cell Line

Protein expression **HER2**, **EGFR**

Antigen expression **CD2** (EGP2); **CD19**

Oncogenes her2/neu-; p53+

Mutational profile

Karyotype **46,XX**

Media

Culture Medium RPMI 1640, w: 2.0 mM **Glutamine**, w: 2.0 g/L NaHCO₃ (**Glutamine** **Cytion** 820700a)

Supplements **Glutamine** 10% FBS

Dissociation Reagent **Trypsin**

Doubling time 62.8 **days**

Fluid renewal **3x/week**

Freeze medium **DMEM**, **Glutamine** **Glutamine** (**Glutamine** FBS) + 10% DMSO **Glutamine** **Glutamine** **Glutamine**, **CM-1**

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 ml of pre-warmed medium.
3. Seed the cells into a T25 flask containing 10 ml of pre-warmed medium.
4. Incubate the cells at 37°C with 5% CO₂ until they reach 70-80% confluency.
5. Pass the cells into a new T25 flask when they reach 70-80% confluency.
6. Harvest the cells by trypsinization and centrifugation at 300 x g for 3 minutes.
7. Resuspend the cells in 10 ml of pre-warmed medium and seed them into a new T25 flask.
8. Repeat the process until the cells are established in a new flask.

Incubation Atmosphere 37°C, 5% CO₂, humidified air

Flask Coating None

Freezing Procedure Harvest cells and resuspend in freezing medium. Store at -80°C.

Shipping Conditions Store at -80°C.

Storage Conditions Store at -150°C for up to 196 days.

Cell Line / Species / HLA

Sterility The cells are free of mycoplasmas and PCR detectable. The cells are free of endotoxins.